

ABSTRACT

[PROBLEMS]

To provide a lost-wax cast impeller for a supercharger having no parting line corresponding part on a hub surface and a blade surface in each space demarcated by pairs of long blades adjacent to each other and having excellent aerodynamic performance.

[MEANS FOR SOLVING PROBLEMS]

This method of manufacturing the impeller comprises a step for forming a lost form pattern formed in the substantially same shape as the impeller for the supercharger, a step for forming a mold by eliminating and removing the lost form pattern after the lost form pattern is coated with a refractory, and a step for pouring a molten metal in the mold for casting. In the step for molding the lost form pattern, a lost material is injection-molded in a space demarcated by radially arranging, toward a center shaft, a plurality of slide molds having short blade-shaped bottomed groove parts and space shapes between the pairs of long blades adjacent to each other, and the slide molds are released by moving in the radial direction of the center shaft while rotating. Thus, the parting line corresponding part is not present on any of the hub surface and the blade surface in the spaces demarcated by the pairs of long blades adjacent to each other.